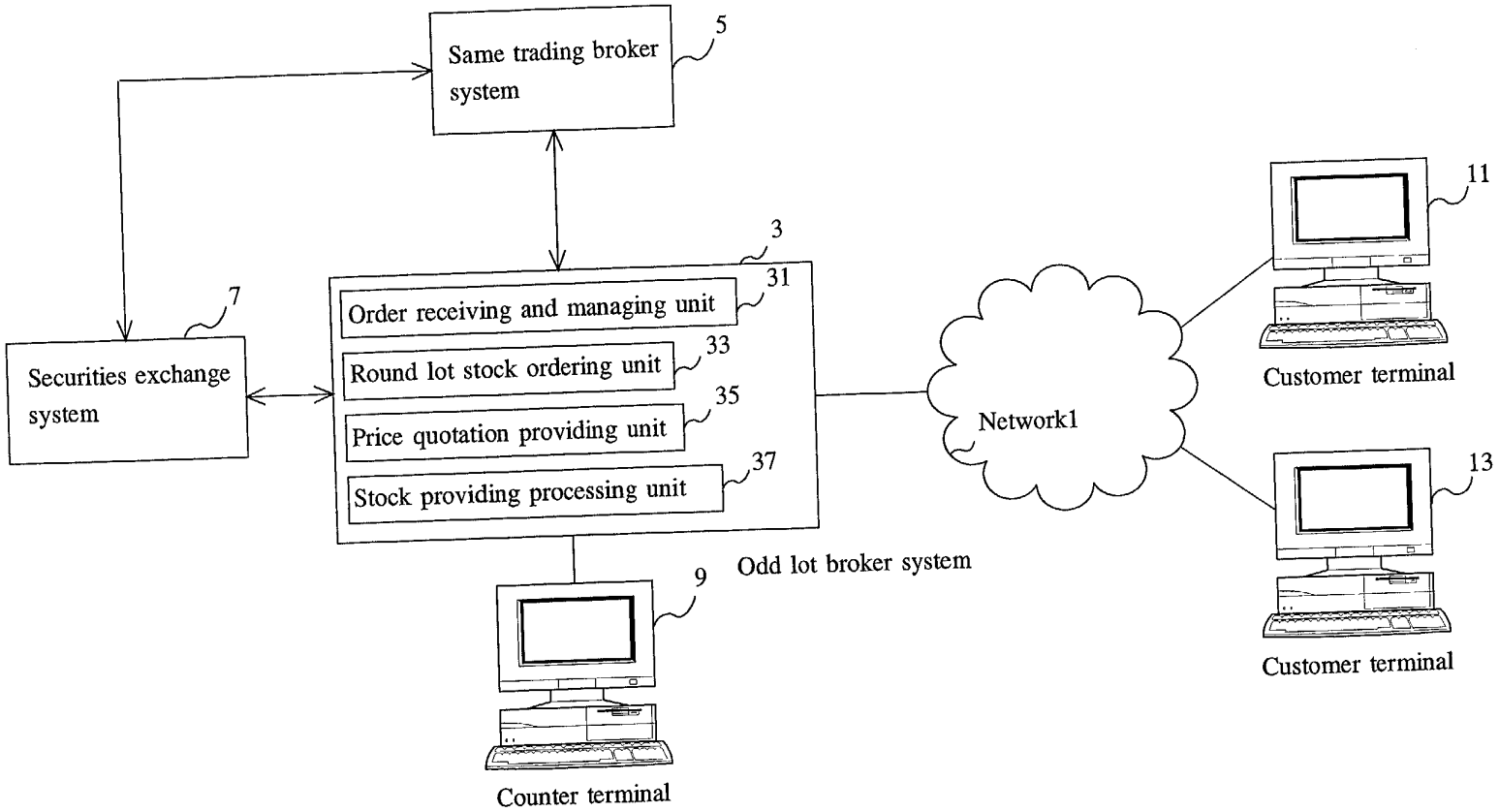

Fig.1

Customer code	Stock code	Buy/Sell	Volume of odd lot	price

Fig.5

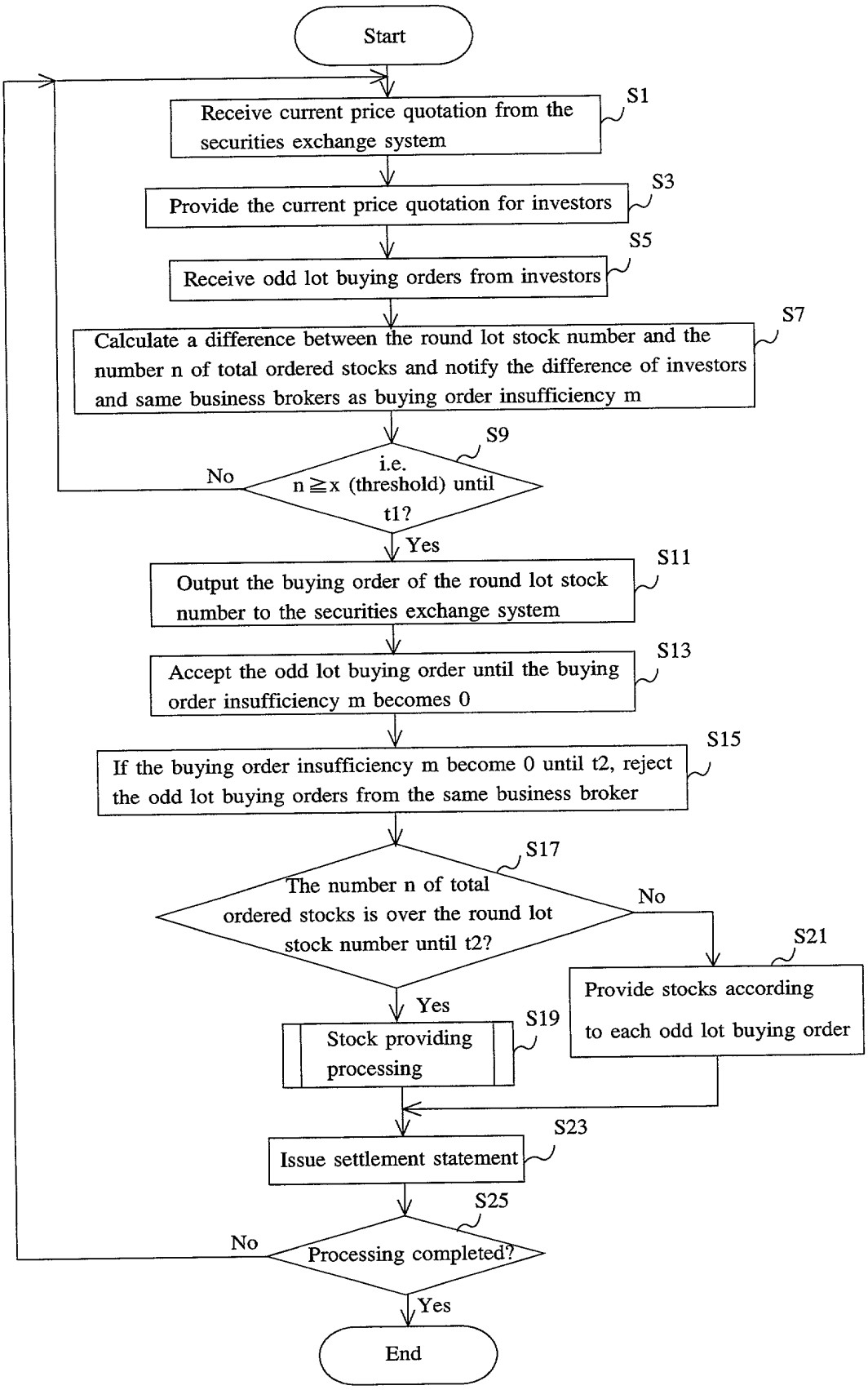
Start
Receive current price quotation from the securities exchange system
S1
Provide the current price quotation for investors
S3
Receive odd lot buying orders from investors
S5
Calculate a difference between the round lot stock number and the number n of total ordered stocks and notify the difference of investors and same business brokers as buying order insufficiency m
S7
i.e. n ≧ x (threshold) until t1?
S9
No
Yes
Output the buying order of the round lot stock number to the securities exchange system
S11
Accept the odd lot buying order until the buying order insufficiency m becomes 0
S13
If the buying order insufficiency m become 0 until t2, reject the odd lot buying orders from the same business broker
S15
The number n of total ordered stocks is over the round lot stock number until t2?
S17
No
Yes
Stock providing processing
S19
Provide stocks according to each odd lot buying order
S21
Issue settlement statement
S23
Processing completed?
S25
No
Yes
End

Fig.2

June 15, 2000 Time10:00:00

Stock code	Company name	Beginning price	Highest price	Lowest price	Current price	Difference to the previous day	Settlement volume	Buying order insufficiency	Selling order insufficiency	Order price
01234	ABC	250	260	230	240	-10	10K	400	-	240
01235	DEF	350	370	340	360	+10	10K	300	-	360

Fig.3

Odd lot trading order input screen

Stock code 0123
Company name ABC
Price 240
Sell/Buy Buy
Volume 400 △ ▽

Transmit Cancel

Fig.4

Odd lot trading order refusing screen

Stock code 0123
Company name ABC
Price 240
Sell/Buy Buy
Volume 400 △ ▽

Transmit Cancel

Fig.6

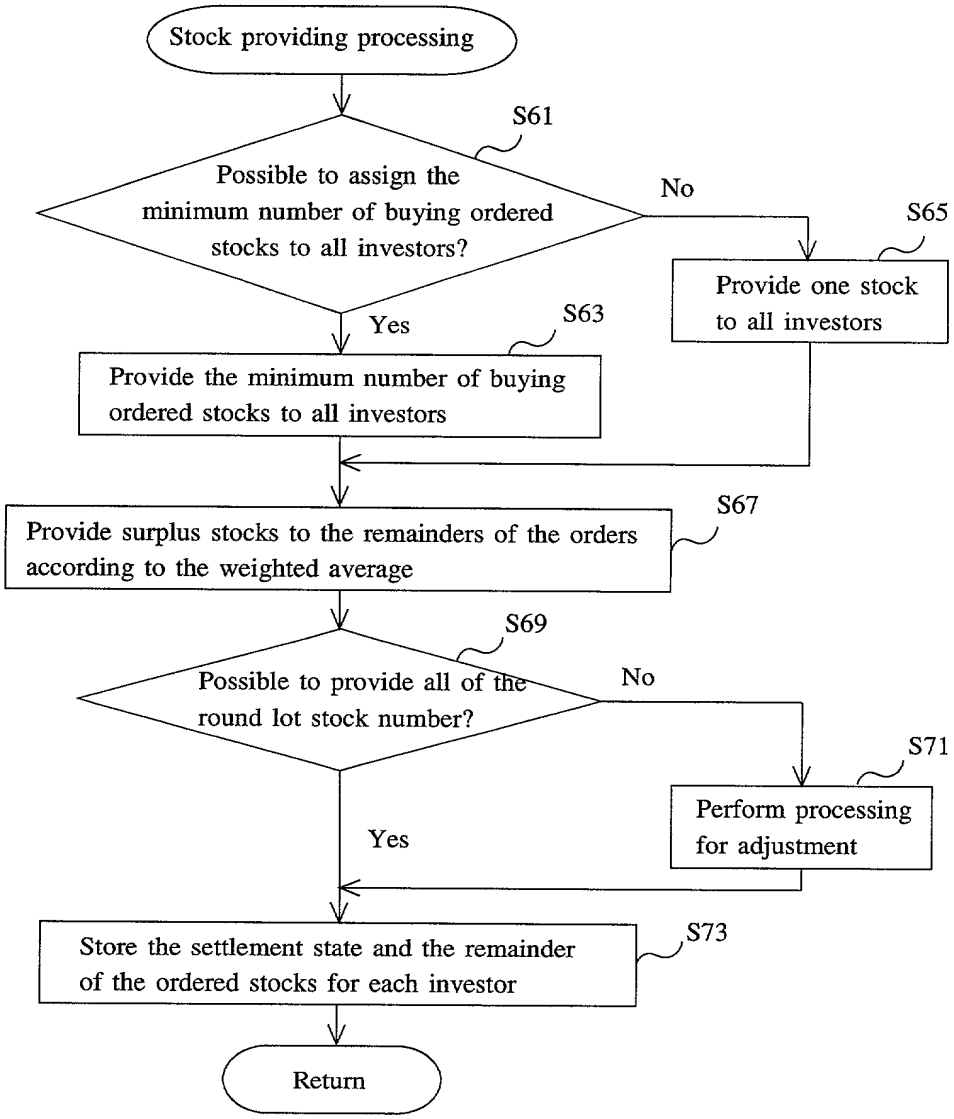
Stock providing processing
S61
Possible to assign the minimum number of buying ordered stocks to all investors?
No
S65
Provide one stock to all investors
Yes
S63
Provide the minimum number of buying ordered stocks to all investors
S67
Provide surplus stocks to the remainders of the orders according to the weighted average
S69
Possible to provide all of the round lot stock number?
No
S71
Perform processing for adjustment
Yes
S73
Store the settlement state and the remainder of the ordered stocks for each investor
Return

Fig.7

Customer	Volume	Priority providing	Remainder of order	Weighted average	Equalized providing	Remainder	Provided stock number
	801	803	805	807	809	811	813
A	1	1	0	0.0	0	—	1
B	2	1	1	1.0	1	—	2
C	4	1	3	2.9	3	—	4
D	8	1	7	6.8	7	—	8
E	16	1	15	14.7	15	—	16
F	32	1	31	30.3	30	—	31
G	64	1	63	61.6	62	—	63
H	128	1	127	124.1	124	—	125
I	256	1	255	249.2	249	—	250
J	512	1	511	499.4	499	—	500
Accumulation	1023	10	1013	990.0	990	0	1000

Fig.8

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Customer	Volume	Priority providing (901)	Remainder of order (903)	Weighted average (905)	Equalized providing (907)	Remainder (909)	Provided stock number (911) (913)
A	1	1	0	0.0	0	—	1
B	1	1	0	0.0	0	—	1
C	1	1	0	0.0	0	—	1
D	650	1	649	326.3	326	—	327
E	660	1	659	331.3	331	—	332
F	670	1	669	336.4	336	1	338
Accumulation	1983	6	1977	994.0	993	1	1000

Fig.9A

Customer	Volume	Weighted average (915)	Equalized providing (917)	Remainder (919)	Provided stock number (921)
A	1	0.5	1	—	1
B	1	0.5	1	—	1
C	1	0.5	1	—	1
D	650	327.8	328	—	327
E	660	332.8	333	-1	332
F	670	337.9	338	-1	338
Accumulation	1983	100.0	1002	-2	1000

Fig.9B

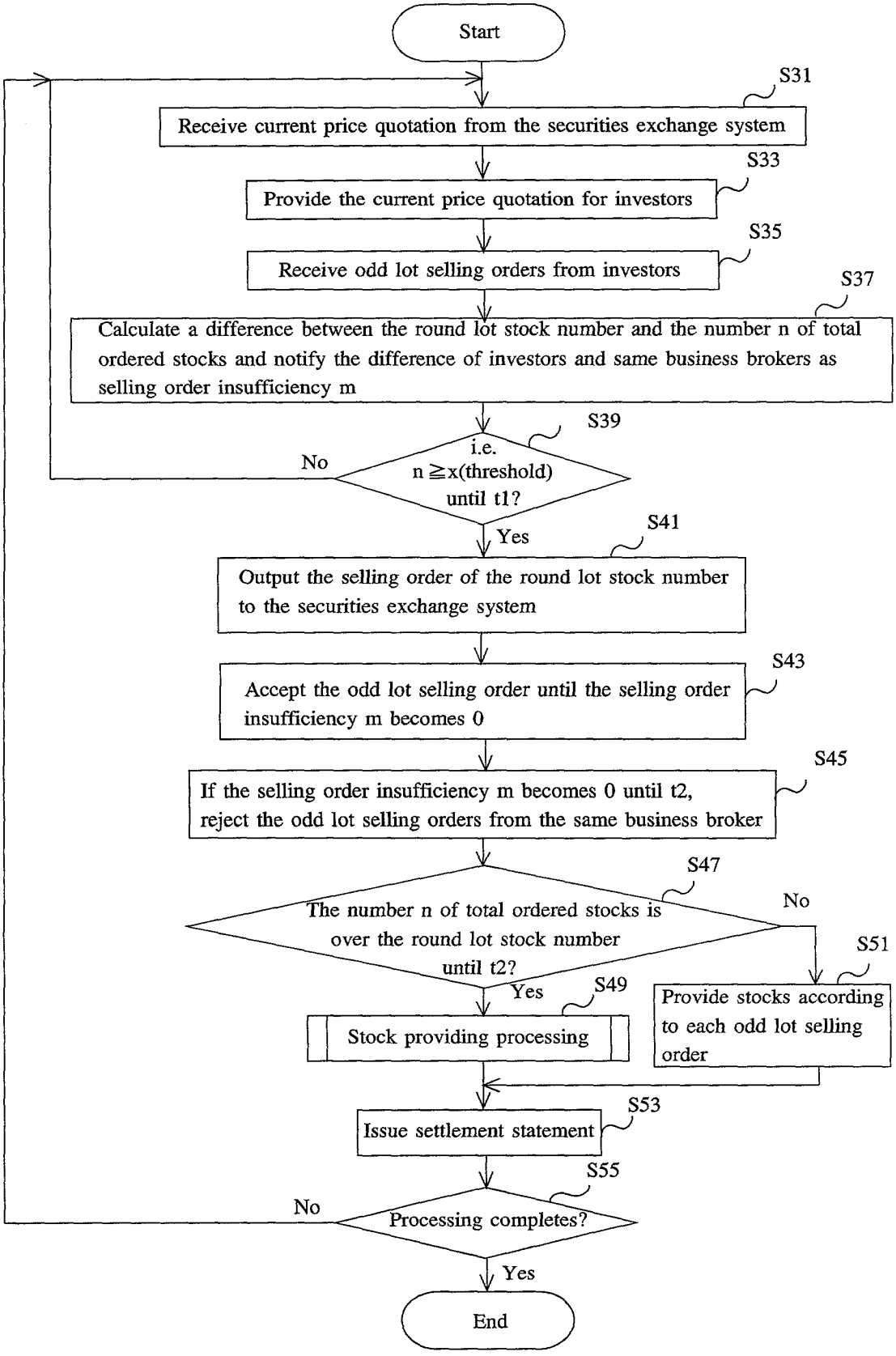
Start
S31
Receive current price quotation from the securities exchange system
S33
Provide the current price quotation for investors
S35
Receive odd lot selling orders from investors
S37
Calculate a difference between the round lot stock number and the number n of total ordered stocks and notify the difference of investors and same business brokers as selling order insufficiency m
S39
i.e.
n ≧x(threshold)
until t1?
No
Yes
S41
Output the selling order of the round lot stock number to the securities exchange system
S43
Accept the odd lot selling order until the selling order insufficiency m becomes 0
S45
If the selling order insufficiency m becomes 0 until t2, reject the odd lot selling orders from the same business broker
S47
The number n of total ordered stocks is over the round lot stock number until t2?
No
Yes
S49
Stock providing processing
S51
Provide stocks according to each odd lot selling order
S53
Issue settlement statement
S55
Processing completes?
No
Yes
End

Fig.10

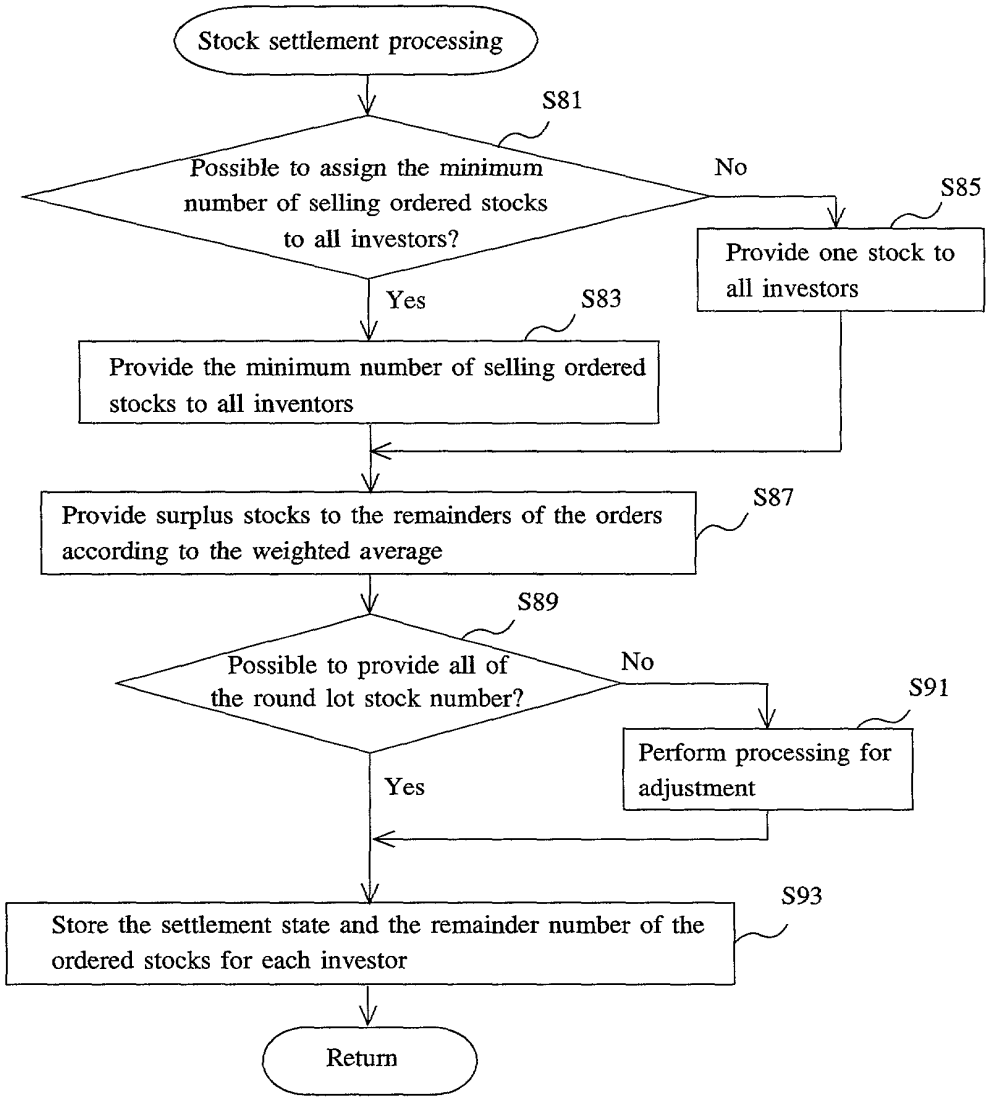
Stock settlement processing
S81
Possible to assign the minimum number of selling ordered stocks to all investors?
No
S85
Provide one stock to all investors
Yes
S83
Provide the minimum number of selling ordered stocks to all inventors
Provide surplus stocks to the remainders of the orders according to the weighted average
S87
S89
Possible to provide all of the round lot stock number?
No
S91
Perform processing for adjustment
Yes
S93
Store the settlement state and the remainder number of the ordered stocks for each investor
Return

Fig.11